

SERVICE MANUAL & PARTS LIST (without price)

JD-6000_(LX-172)

JD-7000_(LX-173)

MAR. 1994



JD-7000

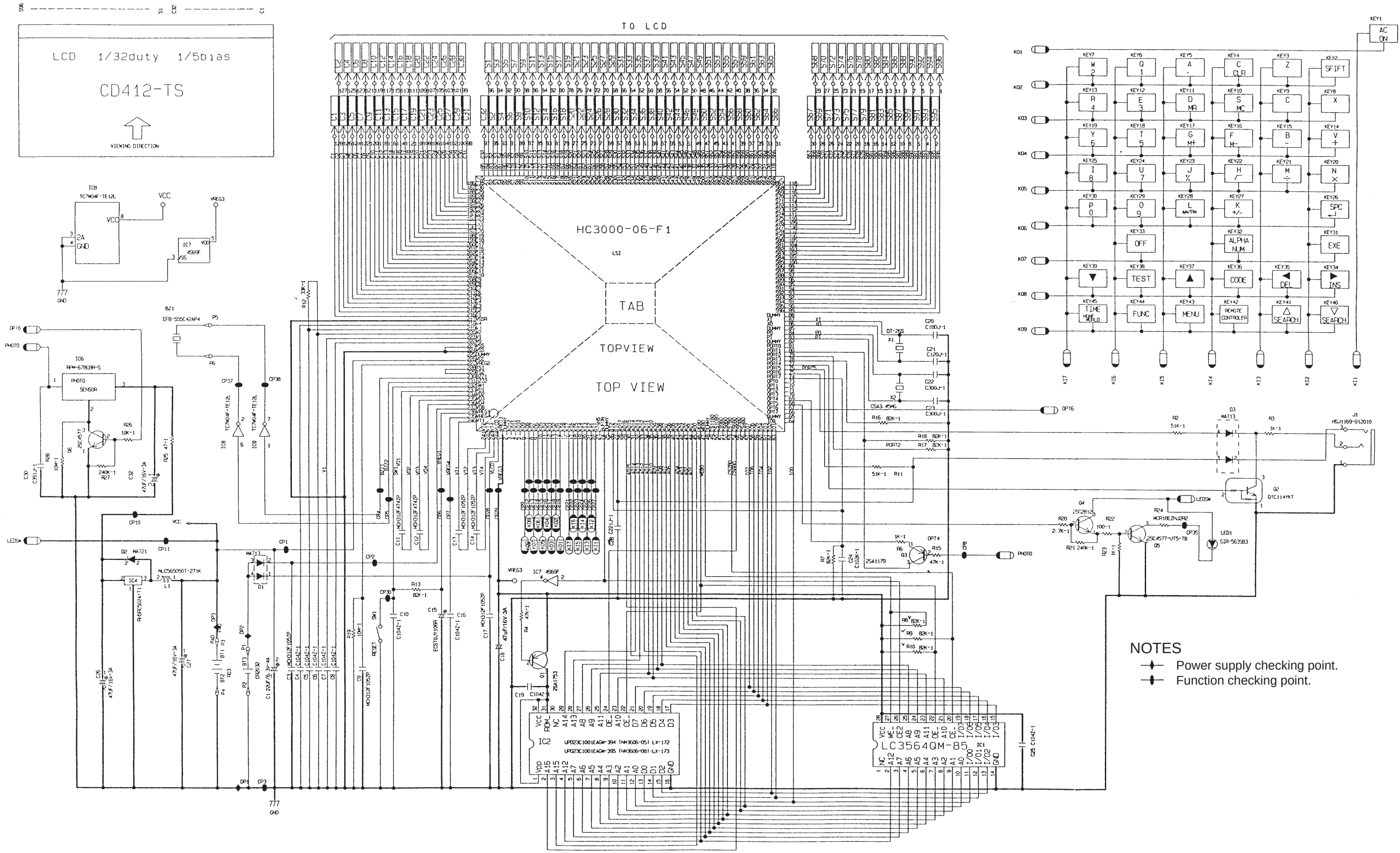
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1. SCHEMATIC DIAGRAM



2. SPECIFICATIONS

Telephone Directory Mode

Storage and recall of telephone directory data (name, telephone number, address, etc.). Each item can contain up to 380 characters with a Fun Face. Includes secret memory area and auto sort function.

Schedule Mode

Storage and recall of appointments for any date in the range of January 1901 through December 2099. Each item can contain up to 372 characters with an icon. Includes secret memory area and auto sort function.

Calendar Mode

Full-month calendars in the range of January 1901 through December 2099. Includes highlighting of important dates and holidays.

Data Memo "Diary" Mode

Storage and recall of memos. Each item can contain up to 381 characters. Includes secret memory area and auto sort function.

Timekeeping Mode

Average of accuracy ± 3 seconds per day under normal temperatures: Home Time (year/month/date, AM/PM, day of the week, city name, daylight saving/standard time): World Time: full automatic calendar: 12/24 hour timekeeping format

Alarm Mode

Daily Alarm (20-second electronic buzzer): Schedule Alarm (20-second electronic buzzer): Hourly Time Signal (beeps every hour on the hour)

Conversion Mode

Six built-in conversion pairs (4-character unit name + 10 digit rate; user-definable)

Fortune Telling Mode

Fortune telling on any date from January 1, 1901 to December 31, 2099.

Match Maker Mode

Compatibility of any two people whose birthdays are from January 1, 1901 to December 31, 2099.

Calculator Mode

10-digit arithmetic calculations; constant calculations; memory calculations; 20-digit approximations; percentage calculations; square roots; sign changes; function command signs

Remote Control Modes (JD-6000)

Television (Power on/off, TV/VCR mode select, Channel +/Channel –, direct channel input, volume control); Video Tape Deck (Power on/off, TV/VCR mode select, Channel +/Channel –, play, record, stop, pause, fast forward, rewind, TV volume control): manufacturer name registration.

Game Mode (JD-7000)

Battle Game

Other functions

Contrast adjustment

Display:	Liquid crystal display
Memory Capacity:	4,096 bytes
Power Supply:	Main batteries – Two AAA-size batteries (LR03 (AM-4) or R03 (UM-4)) Back-up battery – One lithium battery (CR2032)
Power Consumption:	0.2W
Battery Life:	Main batteries – LR03 (AM-4) • approximately 240 hours continuous operation • approximately 1 year (1 hour use per day) R03 (UM-4) • approximately 200 hours continuous operation • approximately 10 months (1 hour use per day) Back-up battery – approximately 3 years after the low main battery warning appears on the display
Auto Power Off:	Approximately 6 minutes after last key operation
Ambient Temperature Range:	0°C ~ 40°C (32°F ~ 104°F)
Dimensions:	Open: 13.5 (H) × 145 (W) × 179.5 (D) mm (1½" (H) × 5¾" (W) × 7 1⁄8" (D)) Closed: 15.1 (H) × 145 (W) × 96.5 (D) mm (5⁄8" (H) × 5¾" (W) × 3¾" (D))
Weight:	138.2 g (4.9 oz) including batteries

Current consumption

	Check point	TYP [μ A]	Max [μ A]
OFF	CP1 - CP3	—	28
ON (Menu)	CP1 - CP3	230	300
ON (Buzzer)	CP1 - CP3	—	1720
ON (Infrared)	CP1 - CP3	—	63000

Memory Capacity Screen

Use the following procedures to check the status of the memory. One procedure displays the amount of memory used and the how much memory is remaining. The other shows you how many data items you have stored in each mode.

To display the memory capacity:

- While the main menu is displayed, or any time you are in the Telephone Directory, Schedule, Data Memo "Diary", or Calendar mode, press **FUNCTION**.
- Use **▲** and **▼** to select "Memory Capacity" and then press **EXE**.

	M e m o r y C a p a c i t y			
Remaining memory (Unit: bytes)	F r e e	3 9 2 9	4 %	Memory used
Memory used (Unit: bytes)	U s e d	1 6 7		

- The memory values shown above are the total for both the Open Memory Area and the Secret Memory Area.
- Press **AC/ON** to clear the memory capacity screen.

To display the number of items in each mode:

- While the main menu is displayed, press **FUNCTION**.
- Use **▲** and **▼** to select "Number of items" and then press **EXE**.

Open Memory Area

T e l (B u s i)	:	1 5
T e l (P e r s)	:	8
S c h e d u l e	:	3
D a t a M e m o	:	7

Secret Memory Area

T e l (B u s i)	:	3
T e l (P e r s)	:	4
S c h e d u l e	:	2
D a t a M e m o	:	1 1

- If you perform the above procedure while in the Open Memory Area, the number of items stored in the Open Memory Area only are displayed. To see the number of items in the Secret Memory Area, you must perform the above operation while accessing the Secret Memory Area.

How memory capacity is calculated

There is no limit on the amount of memory you can use in each mode, but the total amount of data that can be stored is 4,096 bytes. The following shows how many bytes the data in each mode takes up. One character (each newline operation counts as a character also) takes up one byte.

Mode	Bytes per Data Item
Telephone Directory	(name) + (telephone number) + (address. etc.) + 15
Schedule	(description) + 12
Calendar	6 bytes per calendar that contains highlighted dates
Data Memo "Diary"	(memo name) + (memo contents) + 3

Examples:

Telephone Directory data only

When all items use 10 characters for the name, 12 characters for the phone number, and 16 characters of the address, you can store approximately 70 items.

Schedule data only

When all items use 20 characters, you can store approximately 120 items.

Data Memo "Diary" data only

When all items use 10 characters for the memo name and 10 characters for the memo content, you can store approximately 170 items.

Sort Sequence

The following table shows the sequence used for sorting data in the Telephone Directory and the Data Memo "Diary" Mode.

1	§	30	8	59	V	88	t	117	ì	146	ð	175	ň
2	→	31	9	60	W	89	u	118	Ò	147	Â	176	ř
3	←	32	:	61	X	90	v	119	Ù	148	Ê	177	š
4	÷	33	;	62	Y	91	w	120	Ç	149	Î	178	ť
5	×	34	<	63	Z	92	x	121	Ł	150	Ô	179	Ą
6	Space	35	>	64	„	93	y	122	Ž	151	Û	180	Ę
7	!	36	?	65	¥	94	z	123	à	152	Å	181	Č
8	”	37	@	66	“	95	<	124	è	153	Ü	182	Ň
9	#	38	A	67	i	96	£	125	ì	154	Û	183	Š
10	\$	39	B	68	¿	97	>	126	ò	155	â	184	Ý
11	%	40	C	69	a	98	~	127	ù	156	ê	185	Ž
12	&	41	D	70	b	99	Á	128	ç	157	î	186	Ž
13	,	42	E	71	c	100	É	129	†	158	ó	187	ą
14	(	43	F	72	d	101	Í	130	ž	159	û	188	ę
15	)	44	G	73	e	102	Ó	131	Ä	160	å	189	ć
16	*	45	H	74	f	103	Ú	132	Ě	161	u	190	ń
17	+	46	I	75	g	104	Ä	133	Ī	162	ű	191	ś
18	,	47	J	76	h	105	Ö	134	Ö	163	Ǻ	192	ý
19	—	48	K	77	i	106	Ñ	135	Ü	164	Ě	193	ž
20	•	49	L	78	j	107	á	136	Æ	165	Č	194	ž
21	/	50	M	79	k	108	é	137	Œ	166	Ď	195	Ø
22	0	51	N	80	l	109	í	138	Ö	167	Ň	196	ø
23	1	52	O	81	m	110	ó	139	ä	168	Ř	197	ß
24	2	53	P	82	n	111	ú	140	ë	169	Š		
25	3	54	Q	83	o	112	ǻ	141	ï	170	Ť		
26	4	55	R	84	p	113	õ	142	ö	171	ǻ		
27	5	56	S	85	q	114	ñ	143	ü	172	ě		
28	6	57	T	86	r	115	À	144	æ	173	č		
29	7	58	U	87	s	116	È	145	œ	174	d'		

3. GENERAL GUIDE

Very important stuff! Here's where we tell you how not to lose important data stored in memory. Also, be sure to perform the all-reset operation before using the JD-6000/7000 for the first time. The all-reset operation is described on page 12.

Please be sure you understand the following before using the JD-6000/7000.

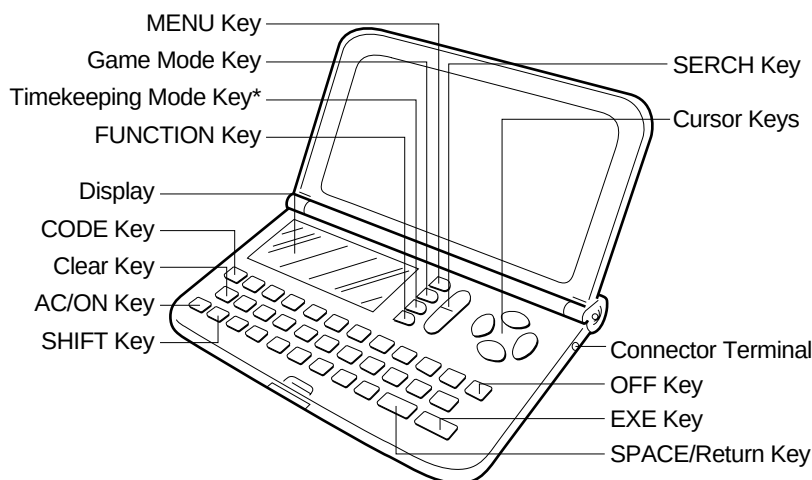
Make back-up copies of important data!

The electronic memory in the JD-6000/7000 store and recall information quickly and easily. But that information is retained only as long as power is supplied by the batteries. Should the batteries go dead, or should you remove both batteries at the same time, data stored in memory can be lost entirely. Data can also be corrupted or lost due to a strong electrostatic charge, strong impact, or extremes in temperature and humidity. All of this means that you should always keep written back-up copies of important data.

General Precautions

Warning!

- Never expose the unit or batteries to direct heat or flame.
- Avoid use or storage in very low temperatures. This may cause display response to slow down or fail entirely. Very low temperatures can also shorten battery life.
- Avoid use or storage in very high temperatures. Even prolonged exposure to direct sunlight can damage the unit. Leaving it on the dashboard of a closed car, or on a heater, is even worse.
- Avoid using or storing the unit where there is high humidity or a lot of dust. Never allow liquids to come into contact with the unit.
- Avoid dropping the unit or otherwise subjecting it to strong impact.
- Never bend or twist the unit. Carrying it in your back pocket, for instance, can subject the JD-6000/7000 to abnormal bending and twisting.
- Never try to take the unit apart.
- Do not press the unit's keys with a pen, pencil, or other sharp object.
- To clean the JD-6000/7000, wipe it with a soft cloth. When necessary, you may wipe the exterior with a soft cloth that has been dipped in a weak solution of a mild, neutral detergent and water.
- Never use strong liquid cleaners such as lacquer thinner or benzine to clean the unit.
- In no event will CASIO or its suppliers be liable to you or any other person for any damages, including any incidental or consequential expenses, lost profits, lost savings, or any other damages arising out of the use of this product.

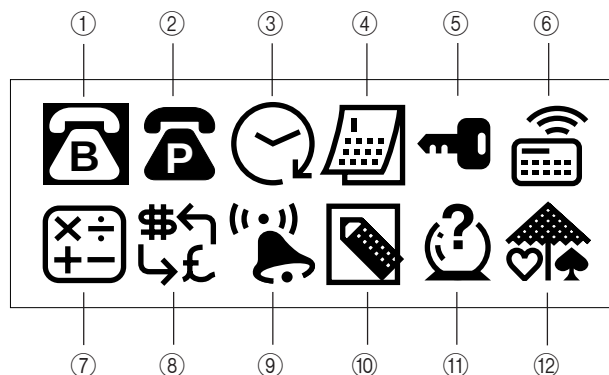


* In this manual, all references to the **HOME TIME/WORLD TIME** key are indicated by **TIME**.

Displaying the Main Menu

The main menu appears on the display when you switch the power on. Whenever you are viewing any other screen, you can always press **MENU** to return to the main menu.

Main Menu



Menu Icons

- | | |
|--|--------------------------|
| ① Telephone Directory
Business Mode | ⑥ Magic Beam Mode |
| ② Telephone Directory
Personal Mode | ⑦ Calculator Mode |
| ③ Schedule Mode | ⑧ Conversion Mode |
| ④ Calendar Mode | ⑨ Alarm Mode |
| ⑤ Secret Memory Area | ⑩ Data Memo "Diary" Mode |
| | ⑪ Fortune Telling Mode |
| | ⑫ Match Maker Mode |

Changing Modes

To change modes:

1. Display the main menu.
2. The icon of the current mode is highlighted on the display . Use **▲**, **▼**, **◀**, and **▶** to select another menu icon.
3. When you have highlighted the mode you wish to select, press **EXE**.

To enter the Timekeeping Mode, press **TIME** key. To enter the Remote Control Modes, press **REMOTE CONTROLLER** (for JD-6000.) To enter the Game Mode, press **BATTLE** (for JD-7000.) You cannot select these modes from the main menu.

Using the FUNCTION Key

To view the function menu, press **FUNCTION**.

To select a function:

1. Use ▲ or ▼ to highlight the function you want to choose.
2. Press **EXE**.

If another function menu appears repeat steps 1 and 2.

To backstep to a previous display, press **FUNCTION**.

To exit the function menu, press **AC/ON**.

Setting the System Language

The JD-6000/7000 can produce display messages in any one of ten language: English, Spanish, Italian, German, French, Danish, Swedish, Dutch, Finnish, and Portuguese.

* Fortune Telling and Match Maker mode messages can be displayed only when the display message language is set to English.

To set the system to another language:

1. Display the main menu.
2. Press **FUNCTION**, then use ▲ or ▼ to highlight "Language." Press **EXE**.
3. Use ▲ or ▼ to highlight the language you want. Press **EXE**.

Also note the word "Language" is displayed in each language.

To Adjust the Display Contrast

1. Display the main menu.
2. To darken the figures on the display, press △. To make them lighter, press ▽.

To Switch the Key Input Tone On or Off

1. Display the main menu.
2. Use ▲, ▼, ◀, and ▶ to highlight "⦿". Press **EXE**.
3. Press **FUNCTION**. Then use ▼ to highlight "Sound," Press **EXE**.
4. Use ▼ to highlight "Key Tone." Use ◀ and ▶ to switch the key tone on and off. Press **EXE**.

Auto Power Off Function

This function automatically switches off the power if you do not touch any of the unit's keys for about six minutes. To restore power, press **AC/ON**.

If you do not touch any keys for six minutes while entering or editing data, setting the current time, or setting an alarm time, power cuts off without storing the data.

If you have set an alarm to go off, and the unit has been shut down by auto power off, the alarm will sound anyway at its appropriate time.

Features and Functions



Telephone Directory Mode

Use this to keep names, phone numbers, and addresses. There are two storage areas, so you can keep business and personal data separate. You can also include fun faces of the people whose names and addresses you keep.



Schedule Mode

Stores the date, time, and type of each appointment. You can select icons to indicate each appointment at a glance.



Calendar Mode

Displays the calendar for any month from January, 1901 to December, 2099. You can specify holidays for highlighting.



Data Memo "Diary" Mode

Stores notes and special thoughts. Diary entry consists of a memo name and the memo's contents.



Secret Memory Area

Stores your private thoughts you wish to keep confidential. No one can gain access to the Secret Memory Area without knowing your password.

Timekeeping Mode

Home Time displays the current time where you are. World Time shows the time in any of 29 zones around the globe. You can use 24-hour or 12-hour format, and can even specify daylight savings time.



Alarm Mode

Lets you set alarms to the minute, for alarms to go off every hour, or for a single time each day. You can also set the Schedule Alarm and control the key input tone.



Fortune Telling Mode

Once you have entered your birthday, you can check your fortune today, or for any day. Have fun telling your friend's fortune too.



Match Maker Mode

Tells you whether or not you are compatible with that special someone.



Conversion Mode

Helps you compare US dollar values against six foreign currencies (monies), or with combinations of currency units.



Calculator Mode

A 10-digit calculator performs most common numerical operations including percents, square roots and memory.

Remote Control Modes (for JD-6000)

Let you use the JD-6000 for remote control of your TV or video tape deck.

Game Mode (for JD-7000)

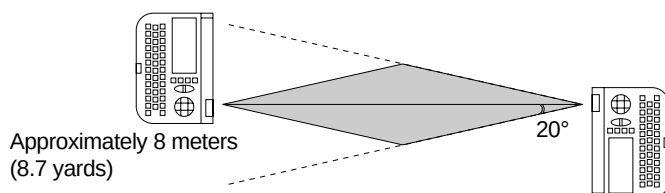
An exciting game that you can play by challenging the JD-7000 or your friends.



Magic Beam Mode

Mask it possible to communicate with another JD-6000/7000 using infrared light, without direct communication.

Effective range



Data Communication Function

Exchanges data with another unit. To communicate with a friend, you'll need an optional SB-62 communication cable to connect the JD-6000/7000 to another.

About the "Check time!" Display

When the message, "Check time!" appears on the display, press any key to display the current time. Make sure the JD-6000/7000 have the correct time before performing any other operation. If the setting is not correct, use the procedure for "Setting the Date and Time" in the Operation Manual to change it.

List of Manufacturers (for JD-6000)

The following is a list of manufacturers that can be registered for the TV and VCR Remote Control Modes.

TV

Manufactures
EMERSON
GE 1
GE 2
GOLDSTAR
HITACHI
JERROLD 1 (C)*
JERROLD 2 (C)*
JVC 1
JVC 2
JVC 3
MAGNAVOX 1
MAGNAVOX 2
MAGNAVOX 3
MAGNAVOX 4
mitsubishi
PANASONIC 1
PANASONIC 2
PANASONIC 3 (C)*
PHILIPS
PIONNER (C)*
RCA 1
RCA 2
RCA 3
SAMSUNG 1
SAMSUNG 2
SCIENTIFIC ATC (ATLANTIC) 1 (C)*
SCIENTIFIC ATC (ATLANTIC) 2 (C)*
SHARP
SONY
TOSHIBA 1
TOSHIBA 2

VCR

Manufactures
EMERSON 1
EMERSON 2
EMERSON 3
GE
GOLDSTAR 1
GOLDSTAR 2
HITACHI
JVC 1
JVC 2
JVC 3
JVC 4
MITSUBISHI 1
MITSUBISHI 2
PANASONIC 1
PANASONIC 2
PHILIPS 1
PHILIPS 2
RCA 1
RCA 2
RCA 3
SAMSUNG 1
SAMSUNG 2
SHARP 1
SHARP 2
SONY 1
SONY 2
SONY 3
TOSHIBA 1
TOSHIBA 2

* "(C)" indicates cable box.

4. RESET OPERATIONS

Two kinds of reset operations can be performed:

- *All-reset operation* deletes all data in memory.
- *Secret-reset operation* deletes only your password and the data in the Secret Memory Area.

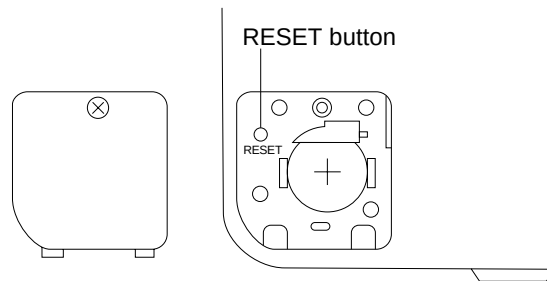
Important!

- Do not use a very sharp pencil to press the **RESET** button. Doing so can damage the JD-6000/7000.
- Be sure to perform the all-reset operation before you use the JD-6000/7000 for the first time.
- After check to make sure that the main batteries and back-up battery are correctly installed, perform the RESET operation.

To Perform All-Reset:

1. Switch the power off.
2. Remove the screw that holds the battery compartment cover in place, then remove the battery compartment cover.
3. Press the **RESET** button on the back of the JD-6000/7000 with a thin, pointed object.
4. Press ▼ to select "Reset," then press **EXE**.
5. Press ◀ to select "Yes, " then press **EXE**.
6. The main menu will appear and all data will be deleted.
7. Replace the battery compartment cover and the screw that secures it in place.

If you want to cancel the reset operation immediately after you have pressed the **RESET** button, select "Exit," then press **EXE**.



To Perform Secret Reset:

- Perform the steps described under "To Perform All-reset" above, but select "Del Secret Data" in place of "Reset" in step 4.

For JD-6000

Following are the initial settings produced by the all-reset operation:

Home Time Zone: London (LON)
Home Time Setting: 12:00 AM, January 1, 1990
World Time: New York (NYC)
12/24-Hour Clock: 12-Hour Clock
Alarm: OFF
Alarm Time: 12:00 AM
Hourly Time Signal: OFF
Key Input Tone: ON
Date Format: Month/Day/Year
Language: English
TV Manufacturer: EMERSON
VCR Manufacturer: EMERSON 1

For JD-7000

Following are the initial settings produced by the all-reset operation:

Home Time Zone: London (LON)
Home Time Setting: 12:00 AM, January 1, 1990
World Time: New York (NYC)
12/24-Hour Clock: 12-Hour Clock
Alarm: OFF
Alarm Time: 12:00 AM
Hourly Time Signal: OFF
Key Input Tone: ON
Date Format: Month/Day/Year
Language: English

When the JD-6000/7000 Does Not Work Correctly...

If the JD-6000/7000 are jolted by a strong electrostatic charge or by severe impact, it may not work properly. In such a case, first check to make sure that the main batteries and back-up battery are correctly installed, and then perform the following operation:

1. Remove the screw that holds the battery compartment cover in place and remove the battery compartment cover.
2. Press the **RESET** button with a thin, pointed object.
3. Look for the message, "Exit," to be highlighted on the display.
4. Press **EXE**. Now the message, "Check time!" should be on the display.

5. BATTERY REPLACEMENT

Low Battery Warning

The message, "Main Battery Getting Weak! Replace it!" appears whenever battery power drops below a certain level. Replace the main battery immediately after this message appears.

When the battery is getting weak between 2.85V and 2.55V, the unit will show the message.

Whenever the low battery warning message appears, the **OFF** key will be the only function that works. If you don't turn the unit off yourself, power will switch off automatically about 30 seconds after the low battery warning appears.

Replacing Batteries

- Main Batteries

Two AAA size batteries (LR03 (AM-4) or R03 (UM-4)) are used for the main power supply. The JD-6000/7000 will not operate at all if main batteries are not installed.

- Back-up Battery

One CR2032 lithium battery supplies power to the memory and protects its contents.

Memory contents are lost when both the main batteries and the back-up battery are removed. Be sure always to leave one of the batteries or back-up battery in place to protect memory contents. If, however, you remove the main battery for any time, memory retention will depend entirely on the condition of the back-up battery. Over a long period of time with just the back-up battery in place, memory contents are likely to be damaged. If memory seems corrupted, clear it using the RESET procedure described on page 12.

Important!

Incorrect use of batteries can cause them to burst or leak, possibly damaging the interior of the JD-6000/7000. Note the following precautions:

- Be sure that the positive (+) and negative (-) poles of the batteries are facing in the proper direction.
- Never leave dead batteries in the battery compartment.
- Remove the batteries if you expect not to be using the JD-6000/7000 for a long period of time.
- To avoid damage to the unit from leaky batteries, replace the main batteries at least every two years, and the back-up battery every three years. Batteries should be replaced no matter how much you use the unit during that time.
- Never mix batteries of different types.

Warning!

- Never try to recharge the batteries supplied with the JD-6000/7000.
- Do not expose batteries to direct heat, short-circuit them, or try to take them apart.
- Keep batteries out of the reach of small children. If swallowed, consult a physician immediately.

To replace the main batteries

1. Switch power off.
2. Loosen the screw of the large battery compartment cover on the back of the unit, and slide the battery compartment cover in the direction noted by the arrow. (Figure 1)
3. Remove the old batteries.
4. Making sure that the positive (+) and negative (-) ends of the batteries are facing correctly, load two new batteries into the compartment. (Figure 2)
 - Be sure to replace both old batteries with two new ones.
5. Insert the tabs on the bottom of the battery compartment cover into the slots of the battery compartment and carefully close the cover. Secure the cover in place with the screw. (Figure 3)

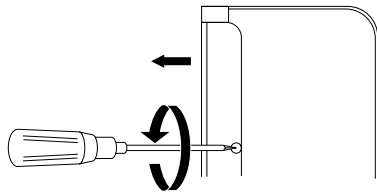


Figure 1

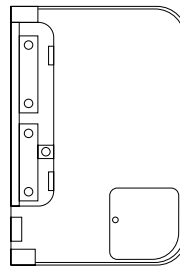


Figure 2

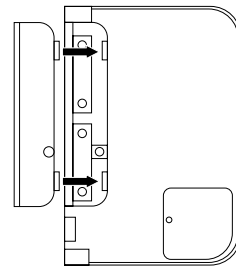


Figure 3

To replace the back-up battery

1. Switch power off.
2. Loosen the screw of the small battery compartment cover on the back of the unit, and remove the back-up battery compartment cover. (Figure 4)
3. Remove the old battery.
4. Wipe off a new battery with a soft cloth. Then, load it into the compartment making sure that positive (+) side is facing up (so you can see it.) (Figure 5)
5. Insert the tabs on the bottom of the battery compartment cover into the slots of the battery compartment and carefully close the cover. Secure the cover in place with the screw. (Figure 6)

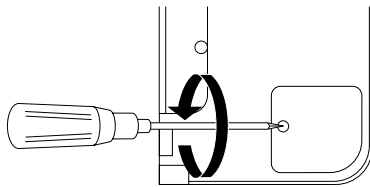


Figure 4

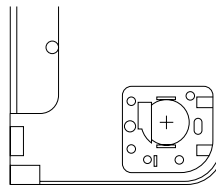


Figure 5

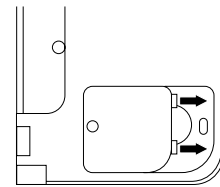


Figure 6

6. ERROR MESSAGE

Message	Meaning	Action
Memory Full!	Not enough room to store the data you are trying to save.	Press AC/ON and then delete data you no longer need from memory.
No Record!	You tried to perform a search operation while there is no data stored in memory.	Input data before attempting search operations.
Not Found!	There is no data that matches your search specification.	Press ◀ or ▶ to recall your search data. You can then edit the previous data or input new data.
Password Mismatch!	The password you input to access the Secret Memory Area does not match the one that is registered.	Input the password correctly.
Main Battery Getting Weak! Replace it!	The main batteries are weak.	Replace the batteries in accordance with the instructions of this manual.
Communication Error	• Error during data communications using Magic Beam. • Magic Beam data communications interrupted.	Correct problem and try again.
Send Error! Receive Error!	Poor connections or some other problem has caused data transfer be aborted.	Correct the problem and try again.

7. LSI PIN FUNCTION

1. CPU (HC3000-06-F1)

Pin No.	Signal	In/Out	Function
1	VREG3	Out	Power supply for RAM / 3(V)
2	DMY	–	Not used
3 ~ 5	KO10 ~ 12	Out	Not used
6 ~ 14	KO1 ~ 9	Out	Key scan signal
15	KI8	In	Not used
16 ~ 22	KI1~7	In	Key input signal
23 , 25	TRANS, DUMMY	–	Not used
24	BUFON	Out	Power supply control for ROM
26	IT2	In	Interrupt signal input
27	IT0	In	Reception data input
28	AO17	Out	Not used
29 ~ 45	A0 ~ A16	Out	Address bus
46	OEB0	Out	Output enable signal for RAM and ROM
47	WEB0	Out	Write enable signal for RAM
48 ~ 52		–	Not used
53	CS7B0	Out	Chip enable signal for RAM
54	CS6	Out	Chip enable signal for ROM
55, 56		Out	Not used
57 ~ 64	IO0 ~ IO7	In/Out	Data bus
65, 66		–	Not used
67	OPT6	Out	Turn on signal for Photo Sensor
68	OPT5	Out	Turn on signal for LED (Infrared)
69	OPT4	In	Communication data through Photo Sensor
70 ~ 73		–	Not used
74	PORT7	–	Interrupt port

Pin No.	Signal	In/Out	Function
75 ~ 77	PORT4~6	In/Out	For data communication
78 ~ 80	PORT1~3	—	Interrupt port
81, 82		—	Not used
83, 84	PI, PO	In/Out	Main clock terminal (3,45 MG)
85	DUMMY	—	Not used
86, 87	XI, XO	In/Out	Clock terminal (DT-26S)
88	DUMMY	—	Not used
89 ~ 184	S1 ~ S96	Out	Segment signal for display
185 ~ 216	C1 ~ C32	Out	Common signal for display
217	VSSR	In	GND / 0[V]
218 ~ 222	V0 ~ V4	Out	The voltage for LCD drive OFF : 0[V] ON; V0 : 3.6 (Min) ~ 5.8 (Max) [V] V1 : 2.9 (Min) ~ 4.6 (Max) [V] V2 : 2.1 (Min) ~ 3.5 (Max) [V] V3 : 1.4 (Min) ~ 2.4 (Max) [V] V4 : 0.7 (Min) ~ 1.2 (Max) [V]
223, 224	VSS	In	GND / 0[V]
225	DUMMY	—	Not used
226	VCC	In	Power supply / 3[V]
227	VREG2	Out	2 [V]
228, 229	TS1, 2	—	Test for manufacturer
230, 231	BZ1, 2	Out	Buzzer terminal
232	SW1	In	2.6[V] While pushing the reset button: 0[V]
233, 234	VD1, 2	—	VD1: 4.7[V] VD2: 1.6[V]
235, 236	VD3, 4	—	VD3: 4.7[V] VD4: 1.6[V]

Pin No.	Signal	In/Out	Function
237	VDB	In	Low battery detection VDB < 4.4[V] ⇒ Low battery message
238, 239	VREG1, 4	–	VREG1: 2.6 [V] VREG4: 5.0 [V]
240 ~ 243	VT1 ~ VT4	–	VT1 : 1.0[V] VT2 : 2.9[V] VT3 : 2.0[V] VT4 : 3.9[V]
244	VLCD	Out	5.9 [V]

2. RAM (LC3564QM-85)

Pin No.	Signal	In/Out	Function
1	NC	–	No connect
2 ~ 10	A0~A7, A12	In	Address bus
11 ~ 13	I/O 0 ~ I/O 2	In/Out	Data bus
14	GND	In	GND / 0[V]
15 ~ 19	I/O 3 ~ I/O 7	In/Out	Data bus
20	CE	In	Chip enable signal
21	A10	In	Address bus
22	OE	In	Output enable signal
23 ~ 25	A8, A9, A11	In	Address bus
26	CE2	In	Chip enable signal
27	WE	In	Write enable signal
28	VCC	In	Power supply / 3[V]

8. OPERATION CHECK

CAUTION : If customer's data are stored in the unit, all data will be corrupted by this operation.

STEP	OPERATION	DISPLAY	NOTE
1	MENU Then short in the checkpad about two seconds.	Caution! This is TEST To Escape Press AC KEY	The checkpad is located right side of the back-up battery switch.
2	EXE	1. RAM, ROM 2. DISP 3. KEY 4. TRANS 5. RESET 6. FCC 7. OPT AC. Esc	
3	1	8K RAM OK!	RAM check
4	EXE	ROM OK!	ROM check
5	EXE	1. RAM, ROM 2. DISP 3. KEY 4. TRANS 5. RESET 6. FCC 7. OPT	
6	2	All dots display	DISPLAY check
7	EXE	No display	Do
8	EXE	Checker display	Do
9	EXE	Reverse checker display	Do
10	EXE	Frame display	Do
11	EXE	1. RAM, ROM 2. DISP 3. KEY 4. TRANS 5. RESET 6. FCC 7. OPT	
12	3	MENU	Key check Push the key sequentially appeared on the display.
13	MENU TIME FUNC M	TIME, FUNC, . . . SPACE/↵	Check the key sound.
14	SPACE	1. RAM, ROM 2. DISP 3. KEY 4. TRANS 5. RESET 6. FCC 7. OPT	
15	5	RESET!	After a half second, the main menu will appear.

9. TO SAVE THE DATA TO OTHER MACHINE

- JD-6000/7000 can transfer customers data (both open and secret area) to other JD-6000/7000 unit when replacing the LCD or the outer case.
- Turn off both units and connect them using a SB-60 or a SB-62 cable.

① To set up the slave unit.

1. Perform the reset operation.
2. Change the Home Time zone to Paris.

(AC),
ON

HOME TIME
WORLD TIME

LONDON
FEB/12/1990
MON
7:XX XX am

FUNCTION

DST ON / OFF
Date Format
12 / 24 Hours
Time Set

Use ▽ to select "Zone Change",
and press (EXE).

<LON>
FEB 12
7 : XX

Use ▷ to select "<PAR>", and
press (EXE).

PARIS
FEB/12 /1990
MON
8 : XX XX am

3. Set the date and time as follows.
1901 – 1 – 1 12:00 am

FUNCTION

Date Format
12 / 24 Hours
Time Set
Zone Change

Use △ to select "Time Set", and
press (EXE).

PARIS
02/12/1990
08 : XX am

Use ◀ or ▶ to move the flashing selection, and use the number keys to input values for the flashing year, month, day, and item digits.

After setting, press (EXE).

PARIS	
JAN/1/1901	TUE
12:00	xx am

4. Set up the slave unit for data receiving.

(MENU), (FUNCTION)

Memory Capacity
Number of Items
Delete Mode Data
Language

Use ▼ to select "Communication", and press (EXE).

Send Data
Receive Data
Set Up

Use ▼ to select "Receive Data", and press (EXE).

Reseive OK!
To Stop
Press AC Key

② To set up the master unit.

1. Set the hardware parameters as follows.

Parity : None, BPS : 9600

(AC_{ON}), (FUNCTION)

Memory Capacity
Number of Items
Delete Mode Data
Language

Use Δ or ▼ to select "Communication", and press (EXE).

Send Data
Receive Data
Set Up

Use Δ or ▼ to select "Set Up", and press (EXE).

Parity	Even / Odd / None
BPS	4800 / 9600

Use Δ , ∇ , $\triangleright$ or $\triangleleft$ to select
"None", "9600", and press **EXE**.

Send Data
Receive Data
Set UP

Use Δ to select "Send data",
and press **EXE**.

Mode Data
All Data

Use ∇ to select "All data", and
press **EXE**.

Send OK ?
Yes / No

Use $\triangleleft$ to select "Yes", and press
EXE.

Now sending !
To stop
Press AC Key

<Master unit>

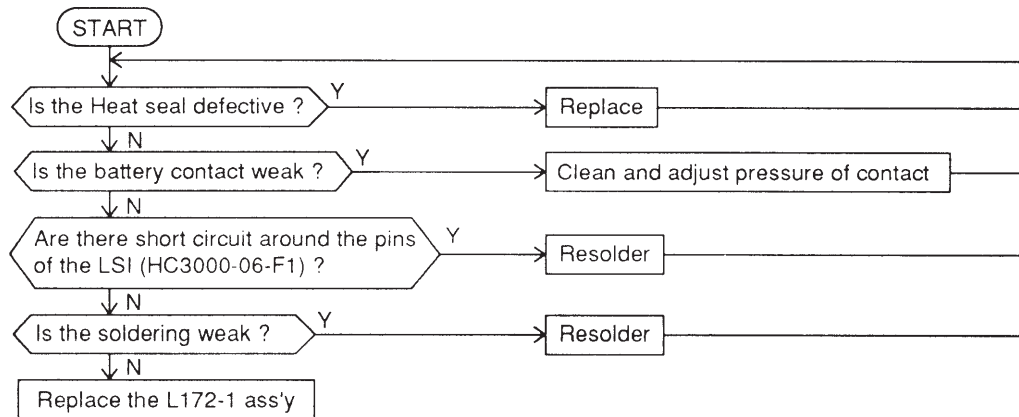
Now receiving !
To stop
Press AC Key

<Slave unit>

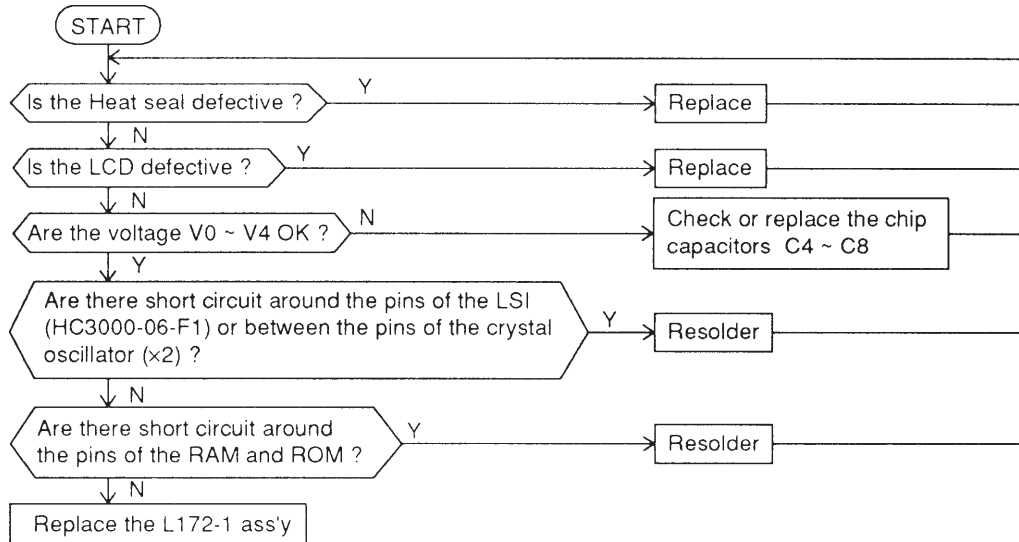
About 10 seconds later, both unit change to menu display.

10. TROUBLESHOOTING

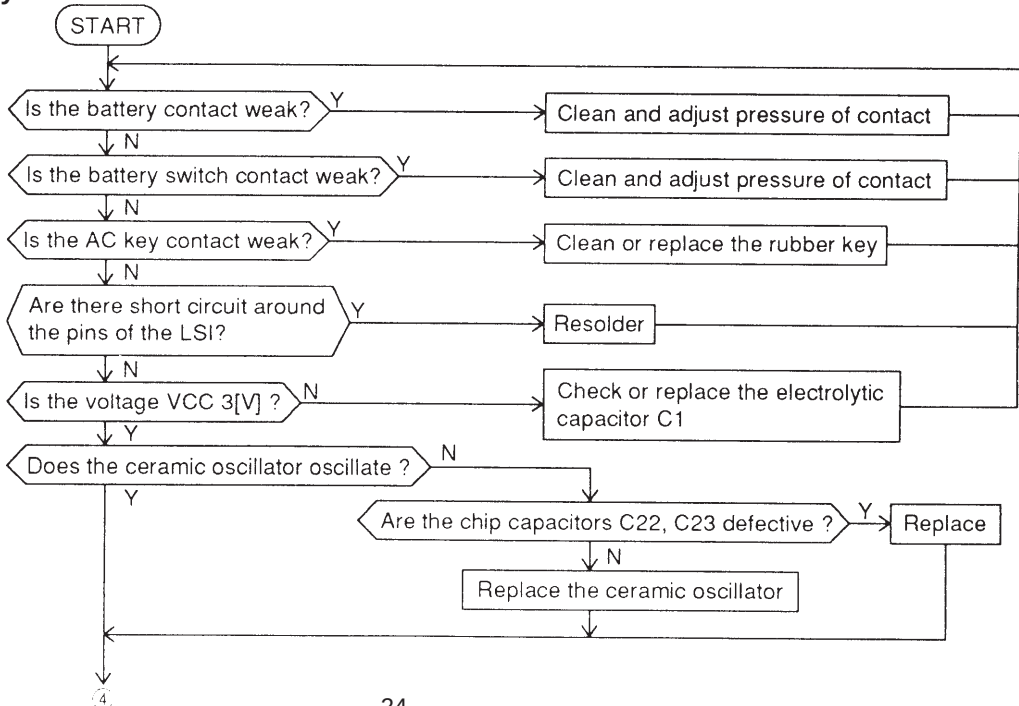
1. Intermittent display

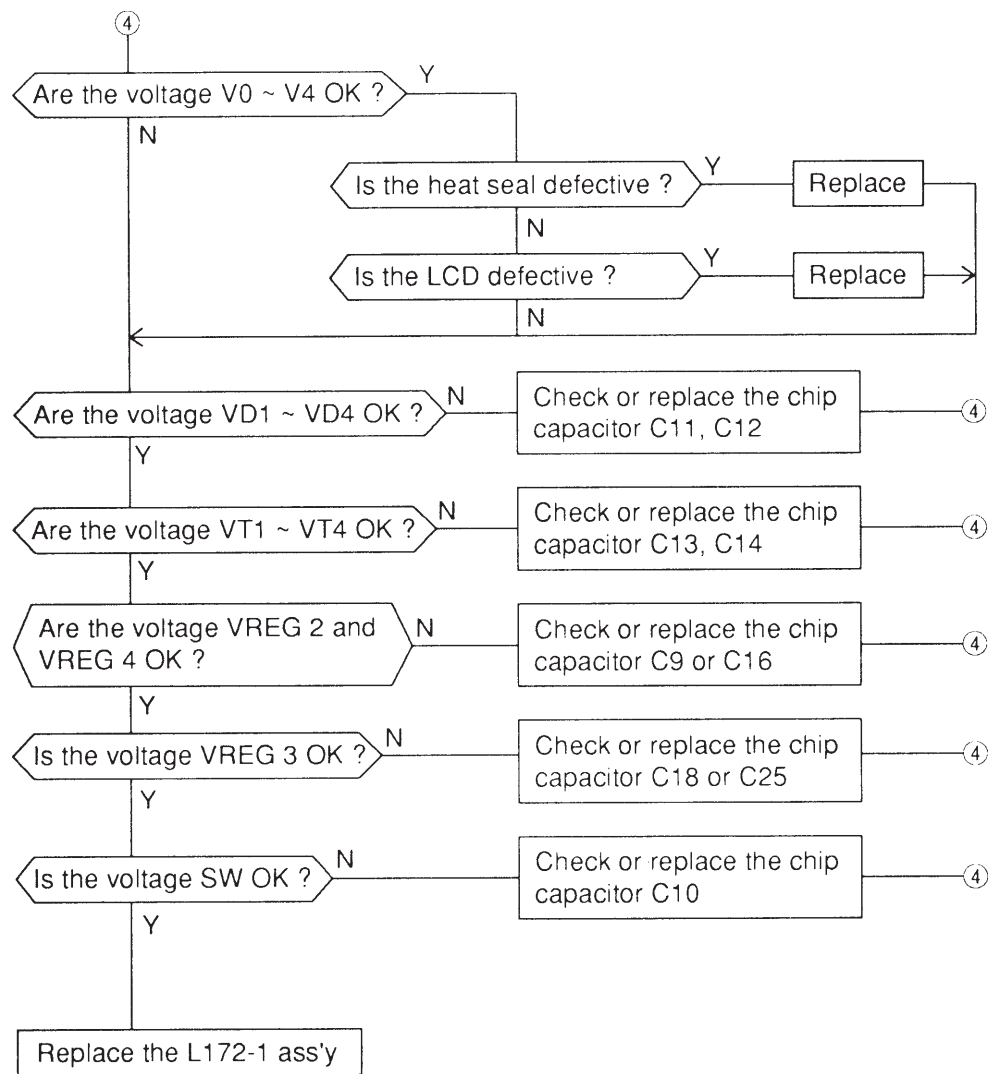


2. Erratic display

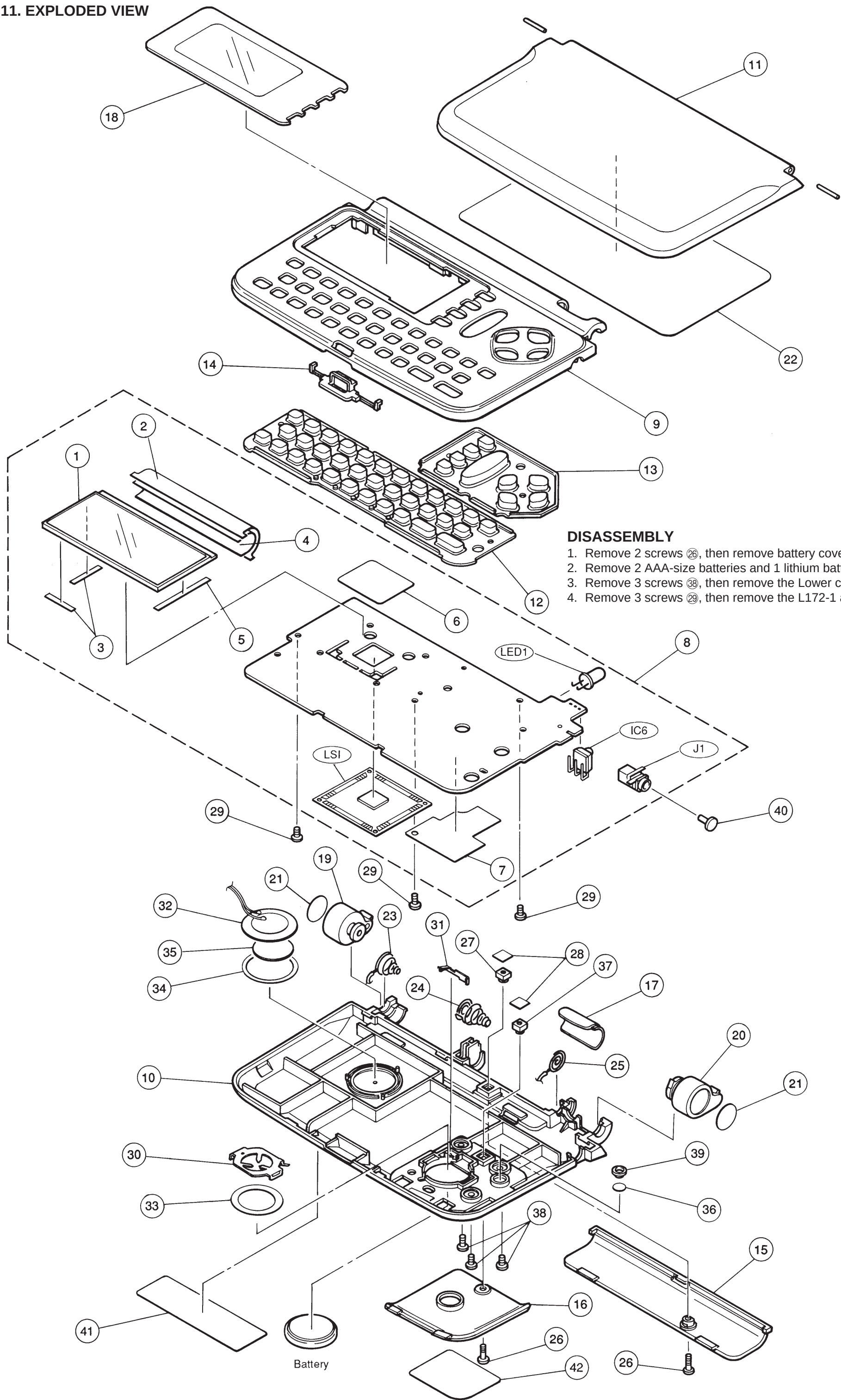


3. No display





11. EXPLODED VIEW



12. PARTS LIST

A : JD-6000 (Made in Japan)

B : JD-6000 (Made in China)

C : JD-7000 (Made in Japan)

D : JD-7000 (Made in China)

E : C-300 (Made in Japan)

F : C-300 (Made in China)

N	Item	Code No.	Parts Name	Specification	Quantity						M	FOB Japan N.R.Yen Unit Price	R
					A	B	C	D	E	F			
L172-1 ASS'Y													
N	LSI	6408 6422	COF3000-F1 sub ass'y	A312545B*5	1	1	1	1	1	1	1		A
	IC1	2011 4088	LSI (RAM)	LC3564QM-85	1	1	1	1	1	1	1		B
N	IC2	2011 7301	LSI (ROM)	uPD23C1001EAGW-394	1	1	0	0	0	0	1		B
N	IC2	2011 7315	LSI (ROM)	uPD23C1001EAGW-395	0	0	1	1	1	1	1		B
	IC3		Not used										
N	IC4	2105 2471	CMOS IC	RH5RC502A-T1	1	1	1	1	1	1	1		C
	IC5		Not used										
N	IC6	3242 0217	Photo sensor	RPM-678CBR-S	1	1	1	1	1	1	1		C
	IC7	2105 0686	L-MOS	TC4S69F-TE85R	1	1	1	1	1	1	10		C
	IC8	2105 2898	L-MOS	TC7W04F-TE12L	1	1	1	1	1	1	5		C
	Q1	2250 0700	Chip transistor	2SA1753-ES5	1	1	1	1	1	1	20		C
	Q2	2259 0959	Chip digital transistor	DTC114YKT-146	1	1	1	1	1	1	20		C
	Q3	2200 4417	Transistor	2SA1179M5,M6-TB	1	1	1	1	1	1	20		C
	Q4	2221 0378	Chip transistor	2SC2812-L5,L6-TB	1	1	1	1	1	1	20		C
N	Q5,6	2252 0945	Transistor	2SC4577-UT5,UT6-TB	2	2	2	2	2	2	20		C
	X1	7110 0642	Crystal oscillator	DT-26S	1	1	1	1	1	1	10		B
	X2	2590 1498	Ceramic oscillator	CSA3.45MG	1	1	1	1	1	1	1		B
	D1,3	2390 0364	Schottky diode	MA713-TX	2	2	2	2	2	2	10		C
	D2	2390 0959	Chip diode	MA721-(TX)	1	1	1	1	1	1	5		C
N	LED1	2370 0945	LED	S1R-563SB3F-P,Q	1	1	1	1	1	1	10		C
	R1		Not used										
N	R2,11	2796 1505	Chip resistor	RC210B51K-J-T	2	2	2	2	2	2	20		C
	R3,6,23	2792 0470	Chip resistor	MCR10EZJH102	3	3	3	3	3	3	20		C
	R4,15	2796 0476	Chip resistor	RC210B47K-J-T	2	2	2	2	2	2	20		C
	R5		Not used										
N	R7~10,R13, R16~18	2796 1519	Chip resistor	RC210B82K-J-T	8	8	8	8	8	8	20		C
N	R12	2796 0315	Chip resistor	RC210B33K-J-T	1	1	1	1	1	1	20		C
	R14		Not used										
	R19,28	2795 2898	Chip resistor	MCR10EZJH106	2	2	2	2	2	2	20		C
N	R20	2796 1239	Chip resistor	RC210B2.7K-J-T	1	1	1	1	1	1	20		C
N	R21,27	2796 1246	Chip resistor	RC210B240K-J-T	2	2	2	2	2	2	20		C
	R22	2796 0266	Chip resistor	RC210B100-J-T	1	1	1	1	1	1	20		C
N	R24	2795 4179	Chip resistor	MCR18EZJH2R2	1	1	1	1	1	1	20		C
	R25	2792 0807	Chip resistor	MCR10EZJH470	1	1	1	1	1	1	20		C
	R26	2796 0469	Chip resistor	RC210B10K-J-T	1	1	1	1	1	1	20		C
N	C1	2803 5490	Electrolytic capacitor (v)	6.3RC3-22-T10-T	1	1	1	1	1	1	20		C
	C2		Not used										
	C3,9,13, 14,17	2845 1925	Chip capacitor	MCH312F105ZP	5	5	5	5	5	5	10		C
	C4~8,10, 16,19,25	2845 1540	Chip capacitor	MCH212F104ZK	9	9	9	9	9	9	20		C
	C11,12	2845 3486	Chip capacitor	MCH312F474ZP	2	2	2	2	2	2	10		C
	C15	2895 1204	Chip tantalm capacitor	ECST0JY106R	1	1	1	1	1	1	10		C
N	C18,26, 27,32	2803 6071	Electrolytic capacitor (v)	16RC2-47-T10-T	4	4	4	4	4	4	20		C

Notes: N – New parts

M – Minimum order/supply quantity

R – Rank

R – A : Essential

B : Stock recommended

C : Others

X : No stock recommended

N	Item	Code No.	Parts Name	Specification	Quantity						M	FOB Japan N.R.Yen Unit Price	R
					A	B	C	D	E	F			
	C20	2845 1652	Chip capacitor	MCH215A180JK	1	1	1	1	1	1	20		C
	C21	2845 2240	Chip capacitor	MCH215A120JK	1	1	1	1	1	1	20		C
	C22,23	2845 2499	Chip capacitor	MCH215A300JK	2	2	2	2	2	2	20		C
	C24	2845 2030	Chip capacitor	MCH215C102KK	1	1	1	1	1	1	20		C
	C28		Not assembled										
	C29		Not used										
N	C30	2845 3605	Chip capacitor	MCH215SL391JK	1	1	1	1	1	1	20		C
N	L1	3841 0952	Coil	NLC565050T-271K	1	1	1	1	1	1	5		C
	J1	3501 6538	Jack	HSJ1169-012010	1	1	1	1	1	1	5		X
	1	3335 4249	LCD	CD412-TS	1	1	1	1	1	1	1		A
	2	5610 7140	Heat seal L170	A312379-1	1	1	1	1	1	1	1		A
	3	6403 5430	Adhesive tape A-L170	A412891-1	1	0	1	0	1	0	20		C
N	3	6408 6940	Adhesive tape A-L172	A412891-4	0	1	0	1	0	1	20		C
	4	6403 5450	Tape A-L170	A412893-1	1	0	1	0	1	0	20		B
N	4	6408 6970	Tape A-L172	A412893-2	0	1	0	1	0	1	20		B
	5	6403 8780	Adhesive tape B-L170	A412891-2	1	0	1	0	1	0	20		C
N	5	6408 6950	Adhesive tape B-L172	A412891-5	0	1	0	1	0	1	20		C
	6	6403 9331	Tape C-L170	A413108A-1	1	0	1	0	1	0	20		C
N	6	6408 6981	Tape C-L172	A413108-2	0	1	0	1	0	1	20		C
N	7	6408 6360	Tape D-L172AA	A414156-2	1	0	1	0	1	0	20		X
N	7	6408 6960	Tape D-L172	A414156-1	0	1	0	1	0	1	20		X
N	8	6408 7530	L172-1 ass'y	A110925F*1	1	1	0	0	0	0	1		B
N	8	6408 6840	L172-1 ass'y	A110925E*4	0	0	1	1	1	1	1		B
COMPONENT													
N	9	6408 6260	Upper case L172AA	A110917-2	1	0	0	0	0	0	1		C
N	9	6408 7490	Upper case L172	A110917-1	0	1	0	0	0	0	1		C
N	9	6408 7010	Upper case L173AA	A110917-3	0	0	1	0	0	0	1		C
N	9	6408 6850	Upper case L173AH	A110917-4	0	0	0	1	0	0	1		C
N	9	6409 3730	Upper case L173BA	A110917-5	0	0	0	0	1	0	1		C
N	9	6409 3740	Upper case L173BH	A110917-6	0	0	0	0	0	1	1		C
N	10	6409 4890	Lower case L172AAA	A110924-7	1	0	0	0	0	0	5		C
N	10	6409 4850	Lower case L172AHA	A110924-8	0	1	0	0	0	0	5		C
N	10	6408 6270	Lower case L172AA	A110924-2	0	0	1	0	0	0	5		C
N	10	6408 7500	Lower case L172	A110924-1	0	0	0	1	0	0	5		C
N	10	6409 3750	Lower case L173BA	A110924-5	0	0	0	0	1	0	5		C
N	10	6409 3760	Lower case L173BH	A110924-6	0	0	0	0	0	1	5		C
N	11	6408 6280	Hard case L172AA	A110922-2	1	0	0	0	0	0	1		X
N	11	6408 7510	Hard case L172	A110922-1	0	1	0	0	0	0	1		X
N	11	6408 7030	Hard case L173AA	A110922-3	0	0	1	0	0	0	1		X
N	11	6408 6870	Hard case L173AH	A110922-4	0	0	0	1	0	0	1		X
N	11	6409 3770	Hard case L173BA	A110922-5	0	0	0	0	1	0	1		X
N	11	6409 3780	Hard case L173BH	A110922-6	0	0	0	0	0	1	1		X
N	12	6409 4830	Rubber key A-L172A	A211215-6	1	1	0	0	0	0	1		C
N	12	6408 7110	Rubber key A-L173	A211215-4	0	0	1	1	0	0	1		C
N	12	6409 3790	Rubber key A-L173B	A211215-5	0	0	0	0	1	1	1		C
N	13	6408 6220	Rubber key B-L172	A211381-1	1	1	0	0	0	0	5		C
N	13	6408 7120	Rubber key B-L173	A211381-2	0	0	1	1	0	0	5		C
N	13	6409 3800	Rubber key B-L173B	A211381-3	0	0	0	0	1	1	5		C
N	14	6409 4900	Knob L172AAA	A211375-7	1	0	0	0	0	0	20		C
N	14	6409 4860	Knob L172AHA	A211375-8	0	1	0	0	0	0	20		C
N	14	6408 6290	Knob L172AA	A211375-2	0	0	1	0	0	0	20		C
N	14	6408 7520	Knob L172	A211375-1	0	0	0	1	0	0	20		C

Notes: N – New parts

M – Minimum order/supply quantity

R – Rank

R – A : Essential

B : Stock recommended

C : Others

X : No stock recommended

N	Item	Code No.	Parts Name	Specification	Quantity						M	FOB Japan N.R.Yen Unit Price	R
					A	B	C	D	E	F			
N	14	6409 3810	Knob L173BA	A211375-5	0	0	0	0	1	0	20		C
N	14	6409 3840	Knob L173BH	A211375-6	0	0	0	0	0	1	20		C
N	15	6409 4910	Battery cover A-L172AAA	A313335-7	1	0	0	0	0	0	20		C
N	15	6409 4870	Battery cover A-L172AHA	A313335-8	0	1	0	0	0	0	20		C
N	15	6408 6300	Battery cover A-L172AA	A313335-2	0	0	1	0	0	0	20		C
N	15	6408 7540	Battery cover A-L172	A313335-1	0	0	0	1	0	0	20		C
N	15	6409 3820	Battery cover A-L173BA	A313335-5	0	0	0	0	1	0	20		C
N	15	6409 3850	Battery cover A-L173BH	A313335-6	0	0	0	0	0	1	20		C
N	16	6409 4920	Battery cover B-L172AAA	A313344-7	1	0	0	0	0	0	20		C
N	16	6409 4880	Battery cover B-L172AHA	A313344-8	0	1	0	0	0	0	20		C
N	16	6408 6310	Battery cover B-L172AA	A313344-2	0	0	1	0	0	0	20		C
N	16	6408 7550	Battery cover B-L172	A313344-1	0	0	0	1	0	0	20		C
N	16	6409 3830	Battery cover B-L173BA	A313344-5	0	0	0	0	1	0	20		C
N	16	6409 3860	Battery cover B-L173BH	A313344-6	0	0	0	0	0	1	20		C
N	17	6408 6320	Filter L172AA	A313338-2	1	0	1	0	1	0	20		X
N	17	6408 6700	Filter L172	A313338-1	0	1	0	1	0	1	20		X
N	18	6408 6230	Display window L172	A313334-1	1	1	0	0	0	0	5		B
N	18	6408 7130	Display window L173	A313334-2	0	0	1	1	0	0	5		B
N	18	6409 3870	Display window L173B	A313334-3	0	0	0	0	1	1	5		B
N	19	6408 6330	Hinge R-L172AA	A313339-2	1	0	0	0	0	0	20		C
N	19	6408 7560	Hinge R-L172	A313339-1	0	1	0	0	0	0	20		C
N	19	6408 7070	Hinge R-L173AA	A313339-3	0	0	1	0	0	0	20		C
N	19	6408 6910	Hinge R-L173AH	A313339-4	0	0	0	1	0	0	20		C
N	19	6409 3880	Hinge R-L173BA	A313339-5	0	0	0	0	1	0	20		C
N	19	6409 3890	Hinge R-L173BH	A313339-6	0	0	0	0	0	1	20		C
N	20	6408 6340	Hinge L-L172AA	A313340-2	1	0	0	0	0	0	20		C
N	20	6408 7570	Hinge L-L172	A313340-1	0	1	0	0	0	0	20		C
N	20	6408 7080	Hinge L-L173AA	A313340-3	0	0	1	0	0	0	20		C
N	20	6408 6920	Hinge L-L173AH	A313340-4	0	0	0	1	0	0	20		C
N	20	6409 3900	Hinge L-L173BA	A313340-5	0	0	0	0	1	0	20		C
N	20	6409 3910	Hinge L-L173BH	A313340-6	0	0	0	0	0	1	20		C
N	21	6408 6240	Hinge blind L172	A414167-1	2	2	0	0	0	0	20		X
N	21	6408 7140	Hinge blind L173	A414167-2	0	0	2	2	0	0	20		X
N	21	6409 3920	Hinge blind L173B	A414167-3	0	0	0	0	2	2	20		X
N	22	6408 6350	Label A-L172AA	A414151-2	1	0	0	0	0	0	10		X
N	22	6408 7580	Label A-L172	A414151-1	0	1	0	0	0	0	10		X
N	22	6408 7090	Label A-L173AA	A414151-3	0	0	1	0	0	0	10		X
N	22	6408 6930	Label A-L173AH	A414151-4	0	0	0	1	0	0	10		X
N	22	6409 3930	Label A-L173BA	A414151-5	0	0	0	0	1	0	10		X
N	22	6409 3940	Label A-L173BH	A414151-6	0	0	0	0	0	1	10		X
N	23	6386 7450	Battery spring A	A410112-1	1	0	1	0	1	0	20		X
N	23	6408 0100	Battery spring A-L370	A410112-3	0	1	0	1	0	1	20		X
N	24	6403 8690	Battery spring B-L180	A412984-1	1	0	1	0	1	0	20		X
N	24	6408 6710	Battery spring B-L172	A412984-2	0	1	0	1	0	1	20		X
N	25	6403 8700	Battery spring C-L180	A412985-1	1	0	1	0	1	0	20		X
N	25	6408 6720	Battery spring C-L172	A412985-2	0	1	0	1	0	1	20		X
N	26	6403 8650	Decoration screw L180	A412299-2	2	0	2	0	2	0	20		B
N	26	6408 6730	Decoration screw L172	A412299-7	0	2	0	2	0	2	20		B
N	27	6393 8540	Nut V545	A411563-1	1	0	1	0	1	0	20		X
N	27	6408 6740	Nut L172	A411563-4	0	1	0	1	0	1	20		X
N	28	6323 1011	Insulation seal G106	A43065-1	1	0	1	0	1	0	10		X
N	28	6408 0230	Insulation seal L375	A43065-2	0	1	0	1	0	1	20		X
N	29	6327 1850	Screw A-G198	A44508-1	3	3	3	3	3	3	5		X

Notes: N – New parts

M – Minimum order/supply quantity

R – Rank

R – A : Essential

B : Stock recommended

C : Others

X : No stock recommended

N	Item	Code No.	Parts Name	Specification	Quantity						M	FOB Japan N.R.Yen Unit Price	R
					A	B	C	D	E	F			
N	30	6329 7621	Battery spring A-G272	A33938A-1	1	0	1	0	1	0	20		X
	30	6408 0091	Battery spring A-L375	A33938-3	0	1	0	1	0	1	20		X
	31	6398 8940	Battery spring L383	A311808-1	1	0	1	0	1	0	20		X
N	31	6408 0010	Battery spring A-L375	A311808-3	0	1	0	1	0	1	20		X
	32	7435 9096	Buzzer	EFB-S55C42AP4	1	1	1	1	1	1	5		C
	33	6329 7660	Battery insulation seal G272	A45154-1	1	0	1	0	1	0	10		X
N	33	6408 0240	Battery insulation seal L375	A45154-6	0	1	0	1	0	1	10		X
	34	6330 4750	Buzzer adhesive tape G333	A45381-1	1	0	1	0	1	0	20		C
	34	6408 6780	Buzzer adhesive tape L172	A45381-3	0	1	0	1	0	1	20		C
N	35	6394 2260	Tape B-V367	A411609-1	1	0	1	0	1	0	20		C
	35	6408 6790	Tape B-L172	A411609-4	0	1	0	1	0	1	20		C
	36	6405 6440	Blind L171	A413625-1	1	0	1	0	1	0	20		C
N	36	6408 6820	Blind L172	A413625-3	0	1	0	1	0	1	20		C
N	37	6406 6510	Nut L185	A413891-1	1	0	1	0	1	0	20		X
N	37	6408 6830	Nut L172	A413891-2	0	1	0	1	0	1	20		X
N	38	6334 7860	Flat screw A-G361	A33953-13	3	0	3	0	3	0	50		X
	38	6407 9930	Flat screw A-L370	A310044-41	0	3	0	3	0	3	50		X
	39	6391 8831	Rubber key V160	A311024A-1	1	1	1	1	1	1	20		C
	40	6390 0431	Cap V332	A310765A-1	1	1	1	1	1	1	20		B
	41	6404 1340	FCC label L170	A412826-3	1	0	1	0	0	0	20		X
	41	6403 0340	FCC label L387H	A412826-2	0	1	0	1	0	0	20		X
N	42	6409 4841	Label B-L172A	A414172A-4	1	1	0	0	0	0	20		X
N	42	6408 6251	Label B-L172	A414172A-1	0	0	1	1	0	0	20		X
N	42	6409 3951	Label B-L173B	A414172A-3	0	0	0	0	1	1	20		X

Notes: N – New parts
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R – A : Essential
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CASIO COMPUTER CO.,LTD.
Service Division

8-11-10, Nishi-Shinjuku
Shinjuku-ku, Tokyo 160, Japan
Telephone: 03-3347-4926